

ExxonMobil Santoprene® 141-55W185 Thermoplastic Elastomer (discontinued **)

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Vulcanizate Elastomer (TPV)

Material Notes:

A soft, black, specialty thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. It complies with NSF 61 for plumbing applications in contact with potable water and has physical properties that meet ASTM F 477 for high head pipe seal applications. This grade of Santoprene TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding or extrusion. It is polyolefin based and completely recyclable. Excellent resistance to compression set. Recommended for applications requiring excellent flex fatigue resistance. Recommended for applications requiring excellent ozone resistance. Complies with NSF Standard 61: Piping System Components for Drinking Water. Designed for application in ASTM F 477 high head pipe seals. Information provided by Advanced Elastomer Systems

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Santoprene-141-55W185-Thermoplastic-Elastomer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.970 g/cc	0.970 g/cc	23°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	.12 in; ASTM D2240
	57	57	Air at 158°F, 96 hr; ASTM D573
Tensile Strength at Break	5.58 MPa	810 psi	Across Flow; ASTM D412
	5.58 MPa	810 psi	Air at 158°F, 96 hr; ASTM D573
Tensile Strength, Ultimate	2.00 MPa	290 psi	Across Flow; ASTM D412
	382.2 %	382.2 %	Air at 158°F, 96 hr; ASTM D573
Elongation at Break	390 %	390 %	Across Flow; ASTM D412
	15 %	15 %	73°F, 22 hr; ASTM D395
Compression Set	20 %	20 %	158°F, 22 hr; ASTM D395

Processing Properties	Metric	English	Comments
Processing Temperature	175 - 230 °C	347 - 446 °F	

Descriptive Properties	Value	Comments
Change in Mass in IRM 903 Oil at 257°F for 70 hr	41	
Color	Black	

Descriptive Properties Form	Value Pellets	Comments
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